AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

RENUMBERED CLATIMS:

5. (Previously Presented) The vane rotary expander according to any one of claims 7 to 10; wherein the expander is operated by means of an operating fluid expanding into a gas-liquid two phase from a liquid phase or a supercritical phase.

Greviously Presented) The vane rotary expander according to any one of 1,4,7,8 claims 7 to 10, wherein the expander is operated by means of an operating fluid containing carbon dioxide as a main component.

(Currently Amended) An expander having a plurality of operating chambers for expanding a high-pressure operating fluid and a shaft for obtaining a rotating power by means of expansion of the operating fluid in the operating chambers comprising:

a first discharge port which firstly communicates to [[the]] an operating chamber involving in of said operating chambers during a discharging process and a second discharge port which secondly communicates to the same operating chamber during said discharging processing;

a valve mechanism preventing the operating fluid from flowing back into the operating chamber being provided to the first discharge port; [[and]]

a discharge chamber temporarily storing the operating fluid flowing out from the first and second discharge ports , wherein;

the expander being configured to produce a maximum volume pressure (Pc)